Welcome to Psy 652 Lab!

Module 12:
Factorial ANOVA

Objectives



Really quick rundown of factorial ANOVA



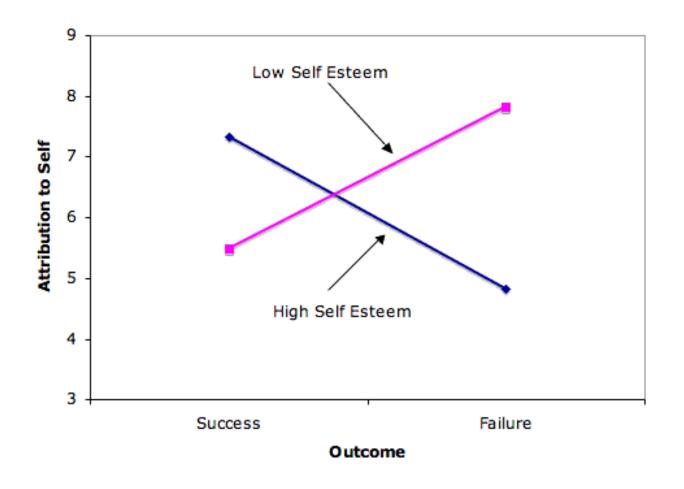
Dataset description



Coding tutorial

Factorial ANOVA

- Pretty similar to last week... Except now we have TWO OR MORE independent variables
- We'll be analyzing if the levels of our IVs differ and additionally analyzing if the interaction between those IVs.
- Interaction effect means analyzing if the *Slopes* between two groups differ.





Statstutor community project

www.statstutor.ac.uk stcp-dataset-diet_des

Diet data set

This data set contains information on 78 people using one of three diets. The dataset is primarily used for ANOVA.

Variable name	Variable	Data type
Person	Participant number	
gender	Gender, 1 = male, 0 = female	Categorical
Age	Age (years)	Continuous
Height	Height (cm)	Continuous
preweight	Weight before the diet (kg)	Continuous
Diet	Diet: 1 = control, 2 = Atkins, 3 = Nutrisystem	Categorical
weight10weeks	Weight after 10 weeks (kg)	Continuous
weightLOST	Weight lost after 10 weeks (kg)	Continuous

Let's code!